abcam

Product datasheet

Dihydroxyacetone Phosphate (DHAP) Assay Kit (Fluorometric) ab197003

3 References 2 Images

Overview

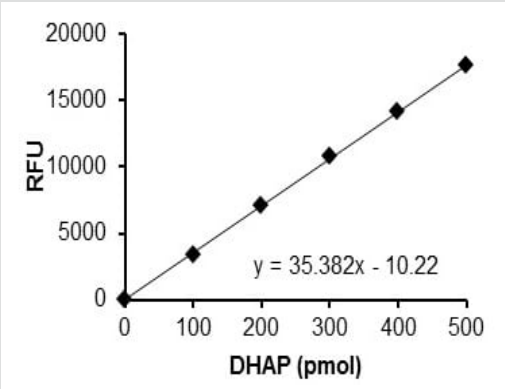
Product name	Dihydroxyacetone Phosphate (DHAP) Assay Kit (Fluorometric)
Detection method	Fluorescent
Sample type	Serum, Plasma, Other biological fluids, Tissue, Adherent cells, Suspension cells
Assay type	Quantitative
Sensitivity	> 0.5 µM
Species reactivity	**Reacts with:** Mammals, Other species
Product overview	Dihydroxyacetone Phosphate (DHAP) Assay Kit (Fluorometric) (ab197003) is suitable for measuring low levels of DHAP typically found in a variety of samples. In this kit, triose phosphate isomerase (TPI) converts dihydroxyacetone phosphate (DHAP) to glyceraldehyde-3-phosphate (GAP), which subsequently undergoes a series of reaction and reduces the probe to generate fluorescence. The fluorescence intensity generated is directly proportional to the amount of dihydroxyacetone Phosphate. Detection limit: 0.5 µM DHAP.
Notes	This product is manufactured by BioVision, an Abcam company and was previously called K673 PicoProbe™ Dihydroxyacetone Phosphate (DHAP) Fluorometric Assay Kit. K673-100 is the same size as the 100 test size of ab197003. Dihydroxyacetone Phosphate (DHAP) is an important intermediate in both lipid biosynthesis and glycolysis. In glycolysis, fructose-1,6- diphosphate is converted to dydroxyacetone phosphate (DHAP) and glyceraldehyde-3-phosphate (GAP) by aldolase. Both DHAP and GAP serve as the intracellular pool for triose phosphate. DHAP can be further converted into GAP by Triose Phosphate Isomerase (TPI). In humans, TPI deficiency is a rare autosomal disease. It causes hemolytic anemia, neurological diseases, and even death due to blockage of the glycolytic pathway and accumulation of DHAP in erythrocytes.
Platform	Microplate reader

Properties

Storage instructions	Store at -20°C. Please refer to protocols.

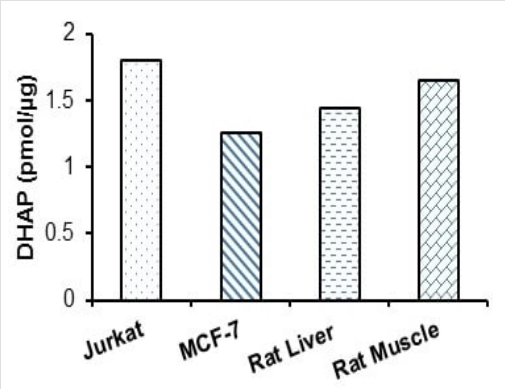
Components	100 tests
Assay Buffer II	1 x 25ml
Developer Solution X	1 vial
DHAP Enzyme Mix	1 vial
DHAP Standard	1 vial
PicoProbe I	1 x 400µl

Images



Typical DHAP Standard Curve obtained following assay protocol.

Functional Studies - Dihydroxyacetone Phosphate (DHAP) Assay Kit (Fluorometric) (ab197003)



Measurement of DHAP level in a varity of samples: Jurkat (250 µg),and MCF-7 (150 µg) cell lysate, and in rat liver (50 µg) and rat muscle (150 µg) tissue lysate.

Functional Studies - Dihydroxyacetone Phosphate (DHAP) Assay Kit (Fluorometric) (ab197003)

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